

CONSTRUCTION VALUE ENGINEERING CONCEPT PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Date 05/30/2008

Contract ID 080425-401

Job No. J4S1060

County Jackson

Route F

Original Bid Cost \$64,400.00

Contractor Radmacher Brothers Excavating Co., Inc.

By Robert Radmacher

Designed By _____

Phone (816) 540-3614

VECP 08-44

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Original plan calls for 60 ft. of 36" jacked pipe under F Highway. The jacking method was apparently chosen to avoid closing the road and causing a traffic dilemma. We propose installing 60 lf. of 36" A2000 PVC pipe using an open trench method on Friday and Saturday night. We will be able to maintain 2 way traffic at all times which would result in a considerable savings.

2. Estimate of reduction in construction costs.

\$27,767.00

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

NONE

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

06/10/2008

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

06/24/2008

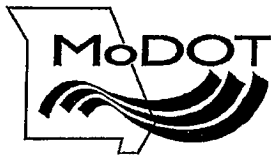
(date)

NONE

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

(date and/or dates)



MEMORANDUM

Missouri Department of Transportation

Construction
Richmond Project Office

TO: Perry Allen-4co
CC: File
FROM: Brian K. Iles *BKI*
Resident Engineer
DATE: June 9, 2008
SUBJECT: VE Concept Proposal
Job No. J4S1060 (Contract ID 080425-401)
Route F, Jackson County



Attached is a Construction Value Engineering Concept Proposal for the above referenced project. Radmacher Brothers Excavating has proposed installing the 36-inch pipe located on Rte. F at Station 171+84.75 by open trench method in lieu of using the jacking method indicated on the plans. This is the only pipe on the project designed to be installed using the jacking method.

The bid amount for the 60-LF of Jacked 36" Class III RCP is \$64,440.00. Based on the contract unit price, the estimated cost to install 60-LF of 36" Class III RCP Culvert by trench method is \$7,663.80, which includes 154-CY Class 3 Excavation and 60-LF of 36-inch Class III RCP Culvert. However, the contract inadvertently included the pipe quantity twice for this run of pipe. The 60-LF was accounted for in the Line No. 650 (Jacked 36" Class III RCP Culvert) and in Line No. 640 (36-inch Class III RCP Culvert). Therefore, \$5,400.00 is already included in the contract for the 60-LF of pipe. Since the pipe length is currently in the contract, the overrun for the alternative installation would only be \$2,263.80.

The contractor has proposed installing A2000 PVC pipe in lieu of Class III RCP. This contract includes Alternate Technical Concept for Group A pipe. Therefore, PVC is allowed based on the contractor submitting the proper information as specified in JSP Section F. This alternate pipe is paid at the contract unit price specified in the pay items, so MoDOT does not realize a cost savings for this pipe substitution.

I have spoke with Joe Bobadilla, City of Oak Grove Director of Public Works, about this proposal. Based on our conversations, the proposal is acceptable to the City.

MoDOT's principal concern is the truck traffic in this area. Truck traffic does not decrease

~~significantly based on time of day. However, the contractor has proposed maintaining two-way traffic during installation, which is equivalent to the number of through lanes during the construction of this project.~~

I recommend approval of this Construction Value Engineering Concept Proposal. Feel free to contact this office with any questions or comments.



Radmacher Brothers

Excavating Company, Inc.



2201 N. 7 Highway, Suite B * Pleasant Hill, MO 64080 * 816 540-3614 * 816 540-4444 fax

May 29, 2008

MODOT
Attn: Brian Iles
201 Wollard Blvd.
Richmond, MO 64085

Re: VE Concept Proposal
Contract ID 080425-401
Job NO. J4S1060
Route F, Jackson County

Dear Mr. Iles:

In response to your letter dated May 26th we are submitting more information on the installation process of the 36-inch pipe. Please review the following proposal and traffic plans in regards to this project.

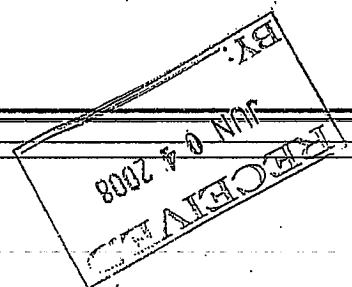
Route F VE Proposal

Working hours will be from 10:00 p.m. to 6:00 a.m. 2-way traffic will be maintained at all times. North access to McDonalds will be open. 4th Street access to Quicktrip will be open. The business's on the West side of Route F will not be affected. Construction will be done after their normal business hours. Truck Stop traffic will not be affected. Once backfilling is complete the area will be graded out and 8" of concrete street patch will be poured back. Street plates will be utilized in a manner to maintain 2-way traffic at all times with two 12' lanes. Estimated time of completion will be 2 working days. The total savings will be \$27,767.00.

If you have any questions or need any additional information, please contact the office at (816) 540-3614.

Thank you,

Robert C. Radmacher
President



Work area

HWY E

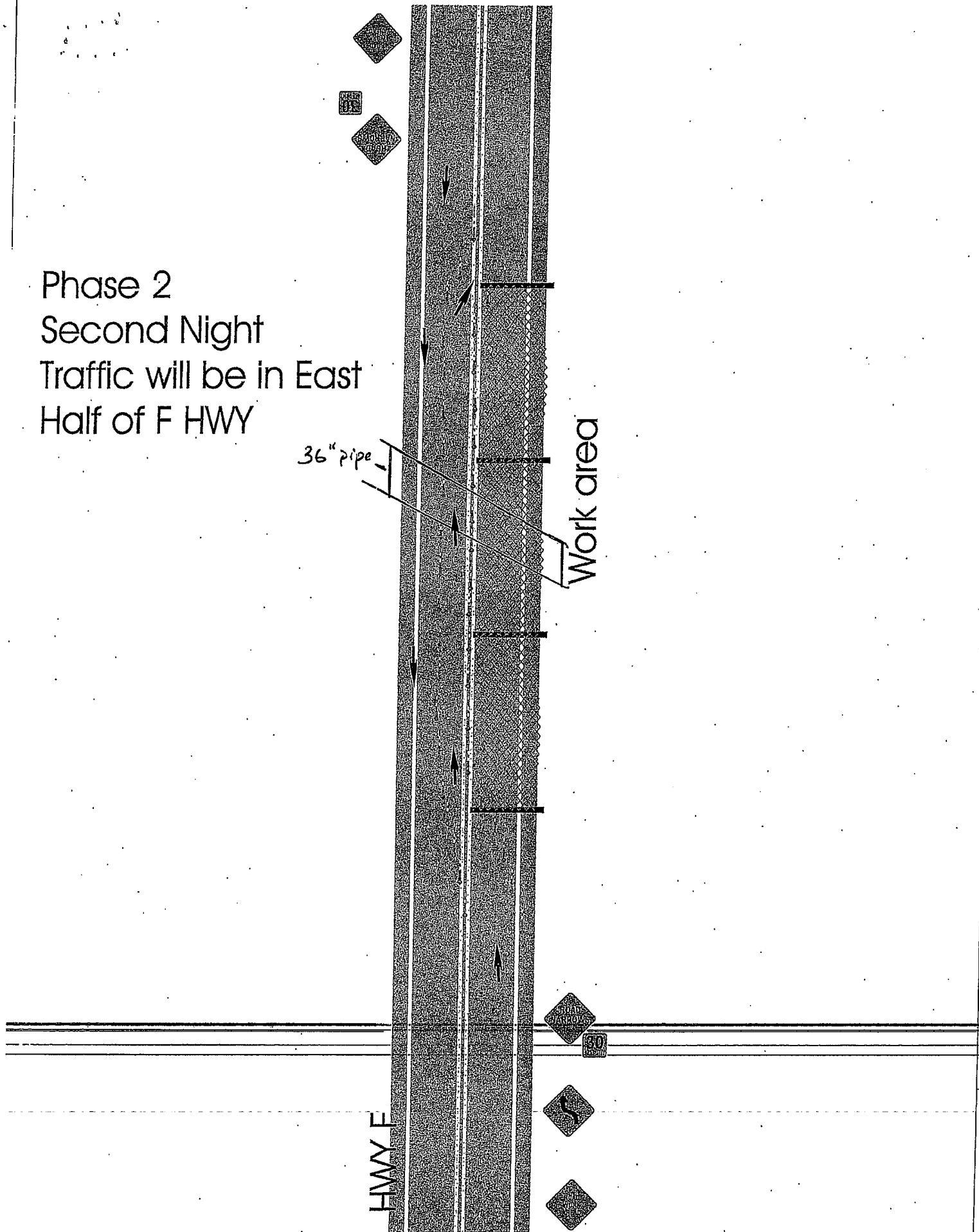
36" pipe

Phase 2
Second Night
Traffic will be in East
Half of F HWY

36" pipe

Work area

HWY F



Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

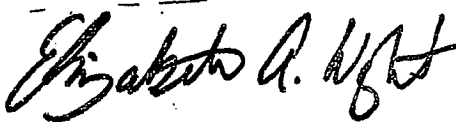
Comments:


Submitted By Resident Engineer

6/9/08
Date

Comments:

☒ Approval
Recommended
☐ Rejection
Recommended



District Engineer

6/26/08
Date

Comments:

☒ Approval
☐ Rejection



State Operations Engineer

By DEB. 6-30-08

Date

Distribution: Resident Engineer, District Operations Engineer, State Operations Engineer
*Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☒ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

____ Install RCP by open trench method in lieu of jacking into
place. _____

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

____ Proposal is not
lengthy _____